

Nickel-based non-crystal alloy powder with broad super-cooled liquid region and method for preparing the same

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Abstract of TW458828B

The present invention relates to a method for preparing a nickel-based non-crystal alloy, which comprises using a high energy ball mill to perform a mechanical alloying treatment on a mixture powder of pure nickel, zirconium, titanium, aluminum, and tin, thereby forming a nickel-based amorphous alloy powder with a broad super-cooled liquid region and having a chemical formula of $Z_{1-a}Z_{rb}T_{ic}Al_{d}S_{ne}$ ($37\% \leq a \leq 57\%$, $20\% \leq b \leq 30\%$, $17\% \leq c \leq 23\%$, $5\% \leq d \leq 10\%$, $1\% \leq e \leq 3\%$).

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